WHAT IS CLAIMED IS:

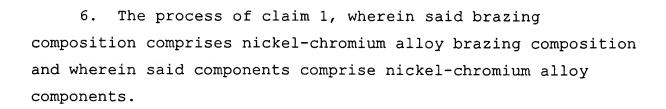
1. A process for selective removal of a nickel alloy brazing composition from a nickel-base alloy component, comprising the steps of:

providing a brazed assembly comprising nickel-base alloy components joined by nickel alloy brazing composition;

immersing said assembly in an electrolyte; and applying a potential across said electrolyte at a magnitude wherein said nickel-base alloy components are electrochemically passive and said nickel alloy brazing composition dissolves whereby said brazing composition is removed from said components.

- 2. The process of claim 1, wherein said electrolyte comprises a mineral acid solution.
- 3. The process of claim 2, wherein said mineral acid solution is a hydrochloric acid solution.
- 4. The process of claim 1, wherein said potential is greater than 0.0 and up to about 1.0 volts versus a Ag/AgCl reference electrode.
- 5. The process of claim 1, wherein said brazing composition has a lower melting point than said components.

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7. The process of claim 1, wherein said brazing composition has a composition as follows:

Cr: 7.0 % wt.

B: 3.10 % wt.

Si: 4.50 % wt.

Fe: 3.0 % wt.

C: 0.06 % wt. max

Ni: remainder.

8. The process of claim 7, wherein said nickel-base alloy components are provided from a material having a nominal composition as follows:

	С	Mn	Si	S	Cr	Co	Nb+Ta	Ni	Cu	Ti	Al	Fe	[-]
Min	-	-		_	14.0	-	0.70	70.0	-	2.25	0.40	5.0	8
Max	0.80	1.00	0.50	0.01	17.0	1.0	1.20	-	0.50	2.75	1.00	9.0	8

9. The process of claim 1, wherein said nickel-base alloy components are provided from a material having a nominal composition as follows:

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•	С	Mn	Si	S	Cr 🗸	· Co	Nb+Ta	Ni	Cu	Ti	Al	Fe	[-]
Min	-	-	-	-	14.0	+	0.70	70.0 [-	2.25	0.40	5.0	8
Max	0.80	1.00	0.50	0.01	17.0	1.0	1.20	_	0.50	2.75	1.00	9.0	8

10. The process of claim 1, wherein said brazing composition is a nickel-chromium alloy containing boron, silicon and iron, and said nickel-base alloy components are provided of a nickel-chromium alloy containing iron, titanium, at least one of niobium and tantalum, and aluminum.